Daily Journal

Name Dennis Nguyen

Date May 15, 2017

## Required work:

* Receive orientation data from sensors
* Draw arrows that change in size linked to degree of orientation.

# What I got done

* Tried to implement some orientation methods to retrieve data

**public class** DrawView **extends** View {  
 **public** DrawView(Context context) {  
 **super**(context);  
 context.getSystemService(Context.***SENSOR\_SERVICE***);  
 }  
  
 SensorManager **sensorManager** = **new** SensorManager();  
 **float**[] **orientation** = **new float**[3];  
 **float**[] **accelerometer** = **new float**[3];  
 SensorActivity **sensorActivity** = **new** SensorActivity();  
  
  
 @Override  
 **protected void** onDraw(Canvas canvas) {  
 **super**.onDraw(canvas);  
 getContext().getSystemService(Context.***SENSOR\_SERVICE***);  
 **accelerometer** = Sensor.***TYPE\_ACCELEROMETER***;  
 **orientation** = **sensorActivity**.*getOrientation*(**sensorManager**.*getRotationMatrix*(**null**, **null**, Sensor.***TYPE\_ACCELEROMETER***, Sensor.***TYPE\_MAGNETIC\_FIELD***), **orientation**);  
 }  
  
}

# What I learned

* getOrientation() returns 3 values: pitch, roll, and azimuth. All 3 corresponding to the XYZ plane

# What I need to do next class

Continue researching android orientation and receive data from the sensors

# What I need to do before next class

* Assessments
* Study
* Sign up for…
* Tell everyone to take CS